

# **Experiment A**

## Becks Sample 1

①

SAMPLE : Beck's / Commercial Beer

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTERTASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.5

SAMPLE : Becks / Commercial beer + Example 1 (A+B)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SARTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTELY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.5

## Becks Sample 3

3/Cal

SAMPLE : Becks / Addition Experiment / C.B. + EXI + Calcium  
 Cl. 34 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SAZINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7  
 (+0.2)



## Becks Sample 4

4/Ca

SAMPLE : Becks / Addition Experiment / CB + L<sub>01</sub> + Ca<sup>(A78)</sup> @ C<sub>036</sub> + 25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETRAHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

↑  
'caloric' function

Comments:

pH 4.9  
(+0.4)

## Becks Sample 5

3/Mg

SAMPLE: Becks / Ex 1 + <sup>Mg</sup> Cd 36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 8.6  
(40.1)

SAMPLE: Becks / Ex1 + Mg U 36 max + 15%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SARTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC*				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.6  
(+0.1)

SAMPLE : Becks / Ex 1 + (P) U36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.3  
(-0.2)

## Becks Sample 8

(4/P)

SAMPLE: Becks / Bc1 + (P) Cl36 (max) + 25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.2  
(-0.3)

## Becks Sample 9

3/K

SAMPLE: Becks / Ex 1 + (K) (136 max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.1  
(+0.6)

## Becks Sample 10

(4/K)

SAMPLE: Becks/ Gx1 + (K) 1136(max) + 25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ERTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.3  
(+0.8)



## Becks Sample 11

3/5:

SAMPLE: Beck's / Exr + C 36 (max) (Si)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7  
(±0.2)



## Becks Sample 12

4/Si

SAMPLE: Beck's / Br 1 + el 36 (more) + 25? (50)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7  
(+0.2)

## Becks Sample 13

3/Na

SAMPLE: Becks / Ex1 + (Na) 23.6 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTERTASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments: Almost all components marginal to acceptable  
 pH 4.7 23.6 mg/L extra beyond Ex1 produced a  
 (+0.2) marginal beer.

SAMPLE : Becks / (R<sub>1</sub> + (W<sub>a</sub>) (L<sub>3</sub> (max) + 25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ERRATIC
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments: Sodium related components concentrated,  
 pH 4.7 after weakened, beer destroyed  
 (+0.2)

SAMPLE : Beck's / Ex 1 + (ee) 136 max

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.6  
(+0.1)

## Becks Sample 16

(4/11)

SAMPLE : Becks / Exr + (11) Cl36 +25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOOR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

pH 4.6

(+0.1)

0.6

0.1

## Becks Sample 17

SAMPLE : Becks / Addition Expt / CO + CO<sub>2</sub> (ABGA)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.5

# Becks Sample 18

SAMPLE : Becks / Adolhon Experiment / CB + EDI (AAB) + (C+D)  $\times \frac{21}{36}$  (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOOR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

pH 4.5



## Becks Sample 19

SAMPLE : Becks / Adolotion Expt / CB + CA (A+B) + [C+D] \*  $\frac{0.36}{\text{max}} + 15\%$

COMPONENT	RATING.				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	STARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TO EXTENDED	PERSISTENT

Comments:

pH 4.5



SAMPLE : Heineken / Commercial Beer

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

SAMPLE : Heineken Commercial Beer + Example 1 (ATR)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUISIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUISIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ERTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUISIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

# Heineken Sample 3

3/Car

SAMPLE : Heineken / Addition / CB + EX (ATR) + (Ca) 0.36(max)

COMPONENT	RATING				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.0  
(+0.3)

SAMPLE : Heineken / Ardolotion / CB + EX 1 (AAS) (Ca) Cl 36 (max + 25%)

COMPONENT	RATING				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY →				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNÉSIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETATY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE →				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.2  
(+0.5)

# Heineken Sample 5

3/Mg

SAMPLE : Heineken / Addition / CB + Ex 1 (ATR) + (Mg) Cl 36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETHEREAL
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.8  
(±0.1)

# Heineken Sample 6

4/Mg

SAMPLE : Heineken / Addition / CB + Ex 1 (A78) + (Mg) 22.36 (max + 25%)

COMPONENT	RATING				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY ←				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY) →				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.8  
(±0.1)

## Heineken Sample 7

3/P

SAMPLE : Heineken / Solution / CB + PX (ATD) + P 0.36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETHEREAL
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

pH 4.3  
(-0.4)



# Heineken Sample 8

4/P

SAMPLE : Heineken Revolution (CB + Ex 1 (ARA) + (P) US6 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTIENESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY →				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY) →				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE →				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.01  
(-0.6)



# Heineken Sample 9

3/K

SAMPLE : Heineken (Hedition) CA + EX (AAB) + (R) C36(max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EPATHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.4  
(+0.7)

# Heineken Sample 10

4/K

SAMPLE: Heineken / Addition (CR + 50 (A7R) + (K) C36 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTY
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	← CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.6  
(+0.9)

SAMPLE : Heineken / Addition / CB + Ex 1 (A+B) + (5) ACL 36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.8  
(+0.1)

## Heineken Sample 12

4/5i

SAMPLE : Heineken / Addition / CB + Ex1 (AAR) + (Si) @ 0.36 max + 25%

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.8  
(+0.1)

SAMPLE : Heineken / Addition / CB + Exc (AAR) + Wall 36 mark

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETARTAY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

# Heineken Sample 14

4/Nov

SAMPLE : Heineken / Revolution (CA + Ex (CAZB) + Na<sub>2</sub>CL36 (max + 25%)

COMPONENT	RATING				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY →				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY) ←				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ERTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.8  
(+0.1)

# Heineken Sample 15

3/CL

SAMPLE : Heineken / Addition / CB + Ex 1 (A+B) + (C) = C136 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7



# Heineken Sample 16

4/11

SAMPLE : Heineken / Aroclution / CA + Ex (A+B) + (C) @ CL36 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE →				
	ABSENT	SHORT	ACCEPTABLE	TO EXTENDED	PERSISTENT

Comments:

pH 4.7



## Heineken Sample 17

5

SAMPLE : Heineken / Addition / Ex 1 (ABCD)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNÉSIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

pH 4.7

# Heineken Sample 18

(6)

SAMPLE : Heineken / Addition / Ex 1 (A+B only) + (C+D) p 36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTY
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	→ SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHLY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

# Heineken Sample 19

(7)

SAMPLE : Heineken / Addition / Ex1 (A+Bent) + (C+D) Cl34 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

## Guinness Sample 1

①

SAMPLE : Guinness / Commercial Beer

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

PH 4.5

SAMPLE : Guinness / Commercial Beer + Example 1 (A+B)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.5

## Guinness Sample 3

(3/6)

SAMPLE : Guinness / Solution / Ex 1 (ATR) + (Ca) 136 max

COMPONENT	RATING				
1	<del>AROMA</del>				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNED TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNED
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOOR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EFFERV
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments :

pH 5.2  
(+0.7)

# Guinness Sample 4

4/Co

SAMPLE : Guinness / Addition /  $2\% \text{ (A.B.)} + \text{(Co) (ab(max) + 25\%)}$

COMPONENT	RATING				
1	<del>AROMA</del>				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY ←				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.4  
(+0.9)



## Guinness Sample 5

3/Mg

SAMPLE : Guinness / Validation / Ex 1 (A+B) + (Mg) 1136 max

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETHEREY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.5

## Guinness Sample 6

4/Mg

SAMPLE : Guinness / Adolition / Ex 1 (A+B) + [Mg]  $CB_{6,max}$  + 25%

COMPONENT	RATING				
1	<del>AROMA</del>				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPUSSIVE
2	MALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
4	SALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY ←				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY) ←				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNÉSIC →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPUSSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.6  
(+0.1)

## Guinness Sample 7

3/P1

SAMPLE : Guinness / Addition / Ex1 + P11 36(max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	NO EXTENDED	PERSISTENT

Comments:

pH 4.1  
(0.4)

4.1

- 0.1

## Guinness Sample 8

4/8

SAMPLE : Guinness / Addition of Ex1 + @ E136 (max + 25%)

COMPONENT	RATING.				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG →	SALINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNED TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNED
8	SOURNESS (ACIDITY) →				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC/MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE →				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 3.9  
(-0.6)

SAMPLE : Guinness / Adolition / BAI + CIB (max) (R)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 5.4  
(+0.9)

## Guinness Sample 10

4/K

SAMPLE : Guinness / Holidon / (A+B) 1 + 236 (max + 257) (K)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	EXTENDED	PERSISTENT

Comments:

pH 5.7  
(+1.2)

SAMPLE : Guinness / Addition / Ex (A+B) + (Si) CL36 max

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETARTAY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 6.7  
(+0.2)



SAMPLE : Guinness / Keltrol / 6x (A+B) + (C) Cl 36 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SALTINESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY ←				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIUM				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7

SAMPLE : Guinness / Addition / Ex (AAS) + (NA) (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.6

(4.0.1)

+ 1.1

SAMPLE : Guinness / Addition / Ex (A+B) + (V6) C236(max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPULSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
4	SARTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SARTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EPRTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPULSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.7  
(+0.2)

4.7

4.7

## Guinness Sample 15

2/11

SAMPLE : Guinness / Addition / Exc (A7B) + U36 (max)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	STAZINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 6.5

## Guinness Sample 16

4/22

SAMPLE : Guinness / Addition / EXC (A+B) + (C) 236 (max + 25%)

COMPONENT	RATING				
1	AROMA ←				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINGS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS ←				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY) →				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNETIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL →				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TO EXTENDED	PERSISTENT

Comments:

pH 4.5

(4.5)

SAMPLE : Guinness / Addition of EX1 (A+B+C+D)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALTINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOOR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 9.5

SAMPLE : Guinness / Addition / Ex1 (HAB) + (C+D) @ 136 max

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINGS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EARTHY
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 6.5



SAMPLE : Guinness / Addition / Ex: (ATB) + (C+D) well 36 (max + 25%)

COMPONENT	RATING				
1	AROMA				
	ABSENT	WEAK	ACCEPTABLE	EXCESSIVE	REPELUSIVE
2	MALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
3	BITTERNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
4	SALTINESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	SALINE
5	SWEETNESS				
	ABSENT	WEAK	ACCEPTABLE	STRONG	EXCESSIVE
6	BODY				
	VERY WEAK	WEAK	ACCEPTABLE	STRONG	HEAVY
7	CARAMEL (BURNT, TOASTY)				
	ABSENT	WEAK	ACCEPTABLE	STRONG	BURNT
8	SOURNESS (ACIDITY)				
	ABSENT	WEAK	ACCEPTABLE	SOUR	ACIDIC
9	'MINERAL' SENSATION				
	ABSENT	WEAK	ACCEPTABLE	STRONG	METALLIC
10	CALCIC / MAGNESIC				
	ABSENT	WEAK	ACCEPTABLE	STRONG	ETHEREAL
11	INITIAL MOUTHFEEL				
	ABSENT	WEAK	ACCEPTABLE	STRONG	REPELUSIVE
12	PERSISTENCE OF AFTER TASTE				
	ABSENT	SHORT	ACCEPTABLE	TOO EXTENDED	PERSISTENT

Comments:

pH 4.5